## WHAT IS CLAIMED IS:

2	1. An automatic powdered ice machine comprising:
3	an ice barrel (10) having a cylindrical chamber (11) defined through the
4	ice barrel (10);
5	at least one refrigerating device (20) mounted at an outer periphery of
6	the ice barrel (10), the at least one refrigerating device (20) having a
7	semiconductor refrigerating component (21) with a cold surface abutting the
8	outer periphery of the ice barrel and a hot surface away from the outer periphery
9	of the ice barrel;
10	a milling device (30) having a milling pole (35) driven by a motor (31)
11	and extending into the cylindrical chamber (11), and a helical ridge (351) formed
12	at an outer periphery of the milling pole (35), wherein the helical ridge (351) has
13	an outer diameter slightly smaller than an inner diameter of the cylindrical
14	chamber (11) to define a clearance between the helical (351) and an inner wall of
15	the cylindrical chamber (11); and
16	a feeding member (40) having a funnel (41) provided above the ice
17	barrel (10) and beside the milling device (30) and in communication with the ice
18	barrel (10) by a pipe (42).
19	2. The automatic powdered ice machine as claimed in claim 1, wherein
20	the milling device (30) has a driving gear (32) mounted on an output axle of the
21	motor (31), a driven gear (34) formed at a top of the milling pole (35), and a
22	clutching gear (33) between the driving gear (32) and the driven gear (34).
23	3. The automatic powdered ice machine as claimed in claim 2, wherein
24	the clutching gear (33) is movable along its axis to engage with/disengage from

- the driving gear (32) and driven gear (34).
- 4. The automatic powdered ice machine as claimed in claim 1, wherein
- 3 the ice barrel (10) has a counterbore (12) defined at a top end of the cylindrical
- 4 chamber (11), an ear formed at the outer periphery of the ice barrel (10), and an
- 5 inlet (13) defined in the ear and in communication with the counterbore (12) and
- 6 the ice barrel (10).
- 5. The automatic powdered ice machine as claimed in claim 1, wherein
- 8 the feeding member (40) further has a control valve (43) provided between the
- 9 funnel (41) and the pipe (43).
- 6. The automatic powdered ice machine as claimed in claim 5, wherein
- the control valve (43) has a passage (431) communicated with the funnel (41)
- and the pipe (43), and a knob (432) for adjusting a flux through the passage (431)
- into the pipe (42) from the funnel (41).
- 7. The automatic powdered ice machine as claimed in claim 1, wherein
- the refrigerating device (20) further has a heat sink (22) mounted at the hot
- surface of the semiconductor refrigerating component (21), and a fan mounted
- on the heat sink (22).
- 8. The automatic powdered ice machine as claimed in claim 1, wherein
- the ice barrel (10) is covered with a layer of heat insulating material (14) at the
- 20 outer periphery of the ice barrel.